

PCT

REQUEST

For receiving	ng Office use only
International Application No.	
International Filing Date	
Name of receiving Office and	"PCT International Application"

	International Filing Dat	e		
The undersigned requests that the present				
international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application"			
	Applicant's or agent's f	ile reference rs maximum) UPN-O2811PCT		
Box No. I TITLE OF INVENTION	<u> </u>			
CHIMERIC EBOLA VIRUS ENVELOPES AND	USES THEREFOR	R		
Box No. II APPLICANT This perso	n is also inventor			
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen	ine aaaress inaicatea in inis	Telephone No. 215-573-4507		
The Trustees of the University of Pennsylv	ania	Facsimile No. 215-898-9519		
3160 Chestnut Street		Teleprinter No.		
Suite 200	_			
Philadelphia, Pennsylvania 19104-3147	US	Applicant's registration No. with the Office		
State (that is, country) of nationality: US	State (that is, country) US	of residence:		
	ed States except States of America	the United States the States indicated in the Supplemental Box		
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	HER) INVENTOR(S)	·		
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residence Wilson, James M.	ine adaress indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box		
1350 N. Avignon Drive Gladwyne, Pennsylvania 19035 US		is marked, do not fill in below.)		
Gladwyne, i chinsylvania 19900 00		Applicant's registration No. with the Office		
State (that is, country) of nationality: US	State (that is, country) US	of residence:		
This person is applicant all designated all designate for the purposes of:	ted States except States of America	the United States of America only the States indicated in the Supplemental Box		
Further applicants and/or (further) inventors are indicated	on a continuation sheet.			
Box No. IV AGENT OR COMMON REPRESENTATIV	E; OR ADDRESS FOR	CORRESPONDENCE		
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	on behalf x	agent common representative		
Name and address: (Family name followed by given name; for a legal er The address must include postal code and name of	ntity, full official designation. country.)	Telephone No. 215-540-9200		
Kodroff, Cathy A. Howson and Howson		Facsimile No. 215-540-5818		
Spring House Corporate Center P.O. Box 457		Teleprinter No.		
Spring House, Pennsylvania 19477 US	·	Agent's registration No. with the Office		
Address for correspondence: Mark this check-box when	re no agent or common re	presentative is/has been appointed and the		
space above is used instead to indicate a special address t	o which correspondence	should be sent.		

				2	
S h	eet	No.		_	

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)						
If none of the following sub-boxes is used, this sheet should not be included in the request.						
Name and address: (Family name followed by given name: for a legal entithe address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence. Medina, Maria Fe C. 2200 Ben Franklin Parkway, W401 Philadelphia, Pennsylvania 19130 US State (that is, country) of nationality: CA	ne address indicated in this					
This person is applicant all designated all designated	d States except the United States the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of it Box is the applicant's State (that is, country) of residence if no State of residence Kobinger, Gary 2049B Bainbridge Street Philadelphia, Pennsylvania 19146 US	he address indicated in this					
State (that is, country) of nationality:	State (that is, country) of residence:					
	d States except the United States the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of it Box is the applicant's State (that is, country) of residence if no State of resident	he address indicated in this					
State (that is, country) of nationality:	State (that is, country) of residence:					
	d States except the United States the States indicated in tates of America only the Supplemental Box					
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of residen	he address indicated in this					
State (that is, country) of nationality:	State (that is, country) of residence:					
	d States except the United States the States indicated it tates of America only the Supplemental Box					
Further applicants and/or (further) inventors are indicated	on another continuation sheet.					

Sheet No. ...3...

Box N	No. V	DESIGNATION OF STATES	λ	lark ti	he applicable check-boxes below;	at least	one must be marked
The f	ollowi	ng designations are hereby made u	nder R	ule 4.	9(a):		
		Patent					i
DZI A	D A	RIPO Patent: GH Ghana, GN	1 Gam	bia. I	KE Kenya, LS Lesotho, MW l	Malaw	i, MZ Mozambique, SD Sudan,
	S	L Sierra Leone, SZ Swaziland, TZ tate which is a Contracting State of pecify on dotted line)	United of the	i Repu Harar	ublic of Tanzania, UG Uganda, Z. e Protocol and of the PCT (if oth	M Zam er kind	bia, ZW Zimbabwe, and any other lost protection or treatment desired,
K F	R P	U Russian Federation, TJ Tajikist atent Convention and of the PCT	an, TN	1 Turk	kmenistan, and any other State wi	nich is	akhstan, MD Republic of Moldova, a Contracting State of the Eurasian
123 H	R II T	epublic, DE Germany, DK Denma E Ireland, IT Italy, LU Luxembou R Turkey, and any other State whi	ark, El rg, MC ch is a	E Esto C Mon Contr	onia, ES Spain, FI Finland, FR F naco, NL Netherlands, PT Portuga racting State of the European Pat	rance, il, SE i ent Co	echtenstein, CY Cyprus, CZ Czech GB United Kingdom, GR Greece, Sweden, SI Slovenia, SK Slovakia, nvention and of the PCT
	T 9	GA Gabon, GN Guinea, GQ Equat D Chad, TG Togo, and any other is f protection or treatment desired, sp	orial C State v pecify o	Juines vhich i on dot	a, GW Guinea-Bissau, ML Mali, is a member State of OAPI and a steed line)	MR N Contra	CI Côte d'Ivoire, CM Cameroon, Mauritania, NE Niger, SN Senegal, eting State of the PCT (if other kind
Nati	ional	Patent (if other kind of protection	or tree	atment	t desired, specify on dolled line):	 No	
X A	E Ur	nited Arab Emirates	LEGI GI	M Gan	nbia	DAINZ NA ⇔	New Zealand
X A	G Ar	ntigua and Barbuda	X H	R Cro	atia	AU DA	1 Oman Philippines
I XXI A	L A	bania	MAN H	U Hur	ngary	Maria Maria	Poland
	MA	menia		Inde	onesia		Portugal
1 1 A	T A	ıstria	DO IN	, Isra	iel	120 DC	Romania
I I I I	LU A	ıstralıa	DEJ 10	i ina	land	X RU	Russian Federation
100 A	IZ AZ	osnia and Herzegovina	120 II	loc:			
		arbados	DE N	Jap R Ker	nya	X sc	
1201 1 1201 1	3B B	ilgaria	X K	C Kvi	rovzstan	X SD	Sudan
LEA 4	3G BI	razil	DE K	Der P. Der	mocratic People's Republic	X SE	Sweden
I 677 ₹	ם עם	lone		of I	Korea	X SG	Singapore
	37. R	elize	Ж к	R Rer	public of Korea	XX SK	Slovakia
		anada	X K	Z Kaz	zakhstan	🕱 sl	Sierra Leone
		LI Switzerland and Liechtenstein					Tajikistan
100	CN CI	hina	X L	K Sri	Lanka	X TN	1 Turkmenistan
						X TN	l Tunisia
100	CR C	osta Rica	₩ L	S Les	sotho	X TF	Tunisia Turkey Trinidad and Tobago
						X TI	
DEC (CZ C	zech Republic	X L	U Lu:	xembourg		
I Mora	DE C	acmi (IN)/	DC 1.7	V Lat	tvia		United Republic of Tanzania
X	OK D	enmark	M M	IA Mo	orocco	KAL UA	Ukraine
		ominica		ID Re	public of Moldova	MALUC NOT THE	Uganda
X	DZ A	lgeria	rest .				United States of America
X	EC E	cuador	MAL M	IG Ma	ndagascar	12 0 112	7 I lababiatan
				IKTh	e former Yugoslav Republic of	D3 U2	Z Uzbekistan
120	ES S	pain	190				Viet Nam
		inland	DE N	UNANY UNION	ongona	12 VI	J Yugoslavia
		nited Kingdom	DEC N	1 % W*	evico	\mathbf{X}	South Africa
	GD G	renada eorgia	DC N	17. M	pzambique	X ZN	M Zambia
	GH G	hana	X N	O No	orway	X Z	W Zimbabwe
1						Δ '-	waran afthia shast.
Che	ck-bo	xes below reserved for designating	States	which	h have become party to the PCT a	iter iss	suance of this sheet:
	Nica	ragua	님			H^{\cdots}	
Pre	cautio	onary Designation Statement: In	addit	ion to	the designations made above, the	applic	ant also makes under Rule 4.9(b) all
l ash		anations which would be permitte	d unde	er the	PCT except any designation(s) to	idicate	d in the Supplemental Box as being
exc	luded :	from the scope of this statement. Th	e appl	icanto	declares that those additional desig	gnation	s are subject to confirmation and that

any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which
 a special continuation box is provided, the space is insufficient
 to furnish all the information: in such case, write "Continuation
 of Box No..." (indicate the number of the Box) and furnish the
 information in the same number as required according to the
 captions of the Box in which the space was insufficient, in
 particular:
- (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. II" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- (v) if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
- (vi) if in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and Indicate for each additional earlier application the same type of information as required in Box No. VI.
- 2. If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

"Continuation of Box No. IV"

Kita, Stanley B. Smith, Jr., George A. Bak, Mary E. Bak, William Palovich, Tracy *

* registered USPTO patent agent only

All above attorneys are members of the firm of Howson and Howson.

Address of all is indicated in Box No. IV.

~-		- 5		
Sheet	No.	 .પ		

Box No. VI PRIORITY	CLAIM						
	earlier application(s) is hereb	oy claimed:					
Filing date Number Where earlier application is:							
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office			
item (1) 30 April 2002	60/376,480	US					
item (2) 04 June 2002	60/385,704	US					
item (3) 20 November 2002	60/427,752	us					
item (4)							
item (5)		·					
	are indicated in the Suppleme						
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:							
Box No. VIII DECLARA							
The following declarations check-boxes below and indicate	are contained in Boxes Nos. rate in the right column the nu	. VIII (i) to (v) (mark the a mber of each type of declar	applicable ration):	Number of declarations			
Box No. VIII (i)	Declaration as to the identi			:			
Box No. VIII (ii)	Declaration as to the applicate, to apply for and be g		he international filing	:			
Box No. VIII (iii)	Declaration as to the app date, to claim the priority	licant's entitlement, as at of the earlier application	the international filing	:			
Box No. VIII (iv)	Declaration of inventorsh United States of America		of the designation of the	:			
Box No. VIII (v)	Declaration as to non-pre	judicial disclosures or exc	eptions to lack of novelt	y :			

		£
-	Ma	U

Box No. IX CHECK LIST; LANGUAGE C	of filing	
This international application contains: (a) In paper form, the following number of	This international application is accompanied by the following item(s) (mark the applicable check-baxes below and indicate in right column the number of each item):	Number of items
sheets: request (including	1. fee calculation sheet	: 1
declaration sheets) :	2. original separate power of attorney	:
description (excluding sequence listings and/or	3. original general power of attorney	:
tables related thereto) : 66	4. copy of general power of attorney; reference number, if any:	. 1
claims : 8	5. statement explaining lack of signature	:
abstract : 1	6 D priority document(s) identified in Box No. VI as	
drawings : 3	item(s):	:
Sub-total number of sheets: 84 sequence listings: 29	7. translation of international application into (language):	:
tables related thereto :	8. separate indications concerning deposited microorganism or other biological material	
(for both, actual mumber of sheets if filed in paper form, whether or not also filed in	9. sequence listings in computer readable form (indicate type and number of carriers)	
computer readable form; see (c) below)	(i) copy submitted for the purposes of international search under Rule 13 ter only (and not as part of the international applications)	
Total number of sheets : 113	(ii) (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the	
(b) only in computer readable form (Section 801(a)(i))	purposes of international search under Rule 13ter	:
(i) sequence listings	(iii) together with relevant statement as to the identity of the copy copies with the sequence listings mentioned in left column	· 1
(ii) tables related thereto (c) also in computer readable form	10. tables in computer readable form related to sequence listings (indicate type and number of carriers)	
(Section 801(a)(ii)) (i) X sequence listings	(i) copy submitted for the purposes of international search unde Section 802(b-quater) only (and not as part of the internation	r ial
(ii) tables related thereto	application)	;
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	(ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater) :
sequence listings: .1.diskette	(iii) together with relevant statement as to the identity of the copy copies with the tables mentioned in left column	or .
tables related thereto:	11. X other (specify): transmittal letter to the USRO	. 1
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11. M. Other (specify).	
Figure of the drawings which should accompany the abstract:	Language of filing of the English international application:	
Box No. X SIGNATURE OF APPLICAN	T, AGENT OR COMMON REPRESENTATIVE	o the request)
Next to each signature, indicate the name of the person sig	ming and the capacity in which the person signs (if such capacity is not obvious from readi-	g increquesty.
By: Cathy A. Kodroff Attorney for Applicants		
	For receiving Office use only	
Date of actual receipt of the purported international application:	2. Dr	wings:
Corrected date of actual receipt due to later timely received papers or drawings complet the purported international application:	but ing	
4. Date of timely receipt of the required corrections under PCT Article 11(2):	n	ot received:
5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid	
	For International Bureau use only	
Date of receipt of the record copy by the International Bureau:		